Procter & Gamble - I.P. Division

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- 1) Appeal Brief (17 pages)
- 2) Fee Transmittal

Number of Pages Including this Page: 19

Inventor(s): Joseph R. Diehl et al.

S.N.:

10/078,816

Filed:

February 19, 2002

Docket #: 8868

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FEE TRANSMITTAL	Complete if Known		
for FY 2005 Patent fees are subject to annual revision. Effective December 8, 2004	Application Number	10/078,816	
	Confirmation Number	7132	
	Filing Date	19 February 2002	
	First Named Inventor	Joseph R. Diehl	
	Examiner Name	C. Lynne Anderson	
	Art Unit	3761	
TOTAL AMOUNT OF PAYMENT (\$)500	Attorney Docket No.	8868	
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1. [X] The Director is hereby authorized to charge indicated fees submitted on this form, credit any over payments, and charge any additional fec(s) during the pendency of this application to: Deposit Account Number: 16-2480 Deposit Account Name: The Procter & Gamble Company	5. ADDITIONAL FEES Fee Description Extension for reply within 1 st month Extension for reply within 2 nd month Extension for reply within 3 nd month Extension for reply within 4 th month (\$1,020) Extension for reply within 5 th month (\$2,16)	0 0			
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Design (\$200) (\$100) (\$130)	Non-English specification (\$130)	0			
(Total = \$430) [] Reissue (\$300) (\$500) (\$600)	Notice of Appeal (\$500	0			
(Total = \$1400) [] Provisional filing fee (Total = \$200) []	Filing a brief in support of an appeal (\$500	\$500			
3. APPLICATION SIZE FEE:	Request for oral hearing (\$1,00	00) []			
Sheets of Spec and Drawings (\$250 for each 50 sheets in excess of 100, except for sequence and program listings) SUBTOTAL (2)+(3) (\$)[]	Acceptance of unintentionally delayed claim for priority under 35 U.S.C. 119, 120, 121, or 365 (a) or (c) (\$1,3 Other:	70) [] []			
4. EXTRA CLAIM FEES FOR UTILITY AND REISSUE: Extra Fee from Fee Claims Below Paid Total Claims [] - 20** = [] x [] = [] Independent Claims [] - 3** = [] x [] = [] Multiple Dependent claims: [] = [] = [] ** or number previously paid, if greater; For Reissues, see below Fee Description Claims in excess of 20 (\$50 per claim) Independent claims in excess of 3 (\$200 per claim) Multiple dependent claim, if not paid (\$360) **Reissue: each independent claim over 3 and more than in the original patent (\$200 per claim)	·				
**Reissuc claims: each claim over 20 and more than original patent (\$50 per claim)					
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-	SUBMITTED BY Name (Print/Type)	Michael P. Hayden	Registration No. 48,43	33	Telephone	(513) 634-5801
١			(Attorney/Agent)		Date	13 April 2005
	Signature	Michael P. Hauden			15 April 2003	

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This collection of information is required by 37 CPR 1.17. The information to require to obtain or retain a benefit by the public which is so file (and by the USPTO to precess) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CPR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed confidentiality is governed by 35 U.S.C. 122 and 37 CPR 1.14. This collection is estimated to take 12 minutes to complete this form sud/or suggestions for reducing application form to the USPTO. Time will very depending upon individual case. Any comments on the amount of time you are required to complete this form sud/or suggestions for reducing application. Should be sent to the Chief Information Officer, U.S. Department of Commerce. P. O. Box 1450, Alexandria, VA 22313-1450. DO NOT this burden, should be sent to the Chief Information Officer, U.S. Department of Commerce. P. O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND TEST OF Commerce. P. O. Commerce of Commerce of

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of Joseph R. Diehl et al.

Application No.:

10/078,816

Filed:

19 February 2002

Art Unit:

3761

Examiner:

C. Lynne Anderson

Docket No.:

8868

Confirmation No.:

7132

Customer No.:

27752

Title: Absorbent Article Having A Dehydration Indicator

APPEAL BRIEF

Commissioner for Patents

Alexandria, VA 22313-1450

Claims 1-20 in the subject Application were rejected for the second time in a Final Office Action mailed on 17 November 2004. An After Final Reply was timely submitted on 12 January 2005. A Notice of Appeal was timely filed on 17 February 2005. An Advisory Action was mailed on 22 February 2005, maintaining the rejections set forth in the aforementioned Final Office Action.

Real Party in Interest

The real party in interest is The Procter & Gamble Company, assignee of the entire interest.

Related Appeals and Interferences

No related appeal or interference is known to exist.

Status of Claims

Claims 1 through 20 remain pending and under final rejections that are the subject of this appeal.

Status of Amendments

The claims are in their original form, never having been amended. Amendments to the description and to a drawing to correct inadvertent errors, i.e., amendments not affecting the claims, were included in the After Final Reply submitted on 12 January 2005 and their entry was

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requested in order to correct the text and the drawing for either allowance or appeal. However, it was indicated in the Advisory Action mailed on 22 February 2005 that these amendments would not be entered, without providing a reason for denying their entry.

SUMMARY OF CLAIMED SUBJECT MATTER

The independent claims are Claims 1, 10, and 17 and are directed to an article comprising a dehydration indicator, which is adapted to measure a urine ionic strength correlated to a specific gravity of the wearer's urine and to provide a visible signal when the urine ionic strength reaches a value corresponding to a predetermined threshold value of the specific gravity.

In Claim 1, the wearable article 20 (page 2, lines 10-12 and 34; Figures 1, 9) comprises:

- a topsheet 24 (page 2, lines 36-37; Figures 1, 2A, 2B, 9), which is adapted to fit about a portion of a wearer (page 2, lines 10-14 and 28-33) and receive urine discharged by the wearer (page 2, lines 22-23; page 3, lines 24-25); and
- a dehydration indicator 60 (page 4, lines 3-5; Figures 1-9), which is disposed on and affixed to a component of the wearable article (page 7, lines 23-24) and is adapted to measure a urine ionic strength (page 4, lines 28-29) correlated to a specific gravity of the wearer's urine (page 4, lines 25-29) and provide a visible signal (page 4, line 30; page 6, line 2 through page 8, line 4) when the urine ionic strength reaches a value corresponding to a predetermined threshold of the specific gravity (page 6, line 18 through page 8, line 4).

In Claim 10, the disposable absorbent article 20 (page 2, lines 28-29 and 34; Figures 1, 9) for receiving and containing bodily exudates including urine from a wearer (page 2, lines 22-23) comprises:

- an outer cover 26 (alternately designated as a "backsheet"; page 2, lines 22-23, page 7, lines 28-30; Figures 1, 2A, 2B, 9) adapted to fit about a portion of the wearer (page 2, lines 10-14 and 28-33);
- a fluid permeable topsheet 24 (page 2, lines 36-37; Figures 1, 2A, 2B, 9), onto and through which the urine is received (page 3, lines 24-25);

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- an absorbent structure 28 (page 2, lines 36-38; page 3, lines 26-34; Figures 1, 2A, 2B, 9) disposed adjacent at least a portion of the outer cover (page 2, lines 37-38; Figures 1, 2A, 2B, 9); and
- a dehydration indicator 60 (page 4, lines 3-5; Figures 1-9), which is adapted to measure a urine ionic strength (page 4, lines 28-29) correlated to a specific gravity of the wearer's urine (page 4, lines 25-29) and provide a visible signal (page 4, line 30; page 6, line 2 through page 8, line 4) when the urine ionic strength reaches a value corresponding to a predetermined threshold of the specific gravity (page 6, line 18 through page 8, line 4).

In Claim 17, an insert (page 2, lines 17-19) for use with a wearable article 20 (page 2, lines 10-12 and 34; Figures 1, 9) comprises a dehydration indicator 60 (page 4, lines 3-5; Figures 1-9), which is adapted to measure a urine ionic strength (page 4, lines 28-29) correlated to a specific gravity of the wearer's urine (page 4, lines 25-29) and provide a visible signal (page 4, line 30; page 6, line 2 through page 8, line 4) when the urine ionic strength reaches a value corresponding to a predetermined threshold of the specific gravity (page 6, line 18 through page 8, line 4).

GROUNDS OF REJECTION TO BE REVIEWED ON APPEAL

Claims 1, 2, 4 through 12, and 14 through 20 stand rejected under 35 USC § 102(e) as being anticipated by U.S. Patent No. 6,515,194 to Neading et al.

Claims 3 and 13 stand rejected under 35 USC § 103(a) as being unpatentable over U.S. Patent No. 6,515,194 to Neading et al. in view of U.S. Patent No. 5, 947,943 to Lee.

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ARGUMENTS

Rejections of Claims 1, 2, 4 through 12, and 14 through 20 under 35 USC § 102(e)

These claims stand rejected under 35 USC § 102(e) as being anticipated by U.S. Patent No. 6,515,194 to Neading et al.

It is noted that Claims 2 through 9 depend from independent Claim 1 and thereby include every limitation of Claim 1. Similarly, Claims 11 through 16 depend from independent Claim 10 and thereby include every limitation of Claim 10. Finally, Claims 18 through 20 depend from independent Claim 17 and thereby include every limitation of Claim 17.

According to the Manual of Patent Examining Procedure (MPEP) § 2131, citing Verdegaal Bros. v. Union Oil Co. of California, 814 F.2d 628, 631, 2 USPQ2d 1051, 1053 (Fed. Cir. 1987), "A claim is anticipated only if each and every element as set forth in the claim is found, either expressly or inherently described, in a single prior art reference."

By this standard, the rejected claims have not been shown to be anticipated because, as explained below, it has not been shown that the cited reference teaches each and every element of any of the rejected claims.

Claims 1, 10, and 17

Each of the independent Claims 1, 10, and 17 explicitly recites that the claimed dehydration indicator is "adapted to measure a urine ionic strength correlated to a specific gravity of the wearer's urine and provide a visible signal when the urine ionic strength reaches a value corresponding to a predetermined threshold of the specific gravity." The Neading et al. reference fails to disclose at least the following elements of these claims.

The reference fails to disclose ionic strength or a measurement of urine ionic strength

The claimed dehydration indicator measures urine ionic strength. In contrast, as was expressly admitted in the Final Office Action (page 4, lines 21-22), "Neading does not explicitly disclose the measurement of urine ionic strength". In fact, the cited Neading et al. reference fails to mention ionic strength.

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Instead, the rejections are based on the wetness indicator of the Neading et al. reference measuring the specific gravity of the urine and the fact that urine specific gravity can be correlated to urine ionic strength. However, the claim limitation is not that the dehydration indicator measures a property correlated to urine ionic strength. The claim limitation is that the dehydration indicator measures urine ionic strength. Measuring urine specific gravity is not the same as measuring urine ionic strength. Therefore, the claim limitation is not met by a device that measures urine specific gravity.

The reference fails to disclose a provision of a signal in response to urine ionic strength

The claimed dehydration indicator provides a visible signal when the urine ionic strength reaches a certain value. In contrast, the rejections are based on the Neading et al. reference providing a visible response in response to specific gravity. In fact, the cited Neading et al. reference fails to mention ionic strength. Moreover, the claim limitation is not that the dehydration indicator provides a visible signal in response to specific gravity or any other property that might be correlated to urine ionic strength. The claim limitation is that the dehydration indicator provides the visible signal when the urine ionic strength reaches a certain value. Providing a visible response in response to urine specific gravity is not the same as providing a visible signal when the urine ionic strength reaches a certain value. Therefore, the claim limitation is not met by a device that provides a visible response in response to urine specific gravity.

The reference fails to disclose a predetermined threshold of specific gravity

The claimed dehydration indicator provides a visible signal when the urine ionic strength reaches a value corresponding to a predetermined threshold of the specific gravity. The definition of "threshold" is "[t]he point that must be exceeded to begin producing a given effect or result or to clicit a response" (The American Heritage® Dictionary of the English Language: Fourth Edition. 2000).

In contrast, as was expressly admitted in the Advisory Action (page 2, lines 10-11), the Neading et al. reference does not explicitly disclose a specific gravity threshold. In fact, the cited Neading et al. reference fails to mention any threshold of any property or parameter. Instead, the rejections are based on the conjecture that "a reagent chosen to change color to indicate a specific level of specific gravity would have a predetermined threshold (i.e. the

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specific gravity at which the color change is elicited)" (Advisory Action, page 2, lines 9-10). However, the conjectured reagent is not found, either expressly or inherently described, in the cited reference. In fact, the Neading et al. reference fails to disclose any predetermination of a threshold of specific gravity or even any method of measuring specific gravity. Instead, specific gravity is merely listed along with twenty other potential elicitors of a visible response, ranging from "wetness" to "temperature" to "bilirubin", etc. Therefore, the present claim limitation regarding the predetermined threshold of the specific gravity is not met by the Neading et al. reference.

Claims 2, 4 through 9, 11, 12, 14 through 16, and 18 through 20

As noted above, these claims depend from and thereby contain all the limitations of independent Claims 1, 10, and 17. Therefore, the failure of the Neading et al. reference to teach each and every element of any of independent Claims 1, 10, and 17 precludes its anticipation of any of these dependent claims, as well.

Claims 8 and 14

In addition to the previously identified unmet limitations of independent Claims 1 and 17, from which they respectively depend, each of Claims 8 and 14 contains the limitation that "the dehydration indicator is covered by a semipermeable membrane".

In the Final Office Action, it was alleged that element 14B of the Neading et al. reference is a semipermeable membrane (Final Action, page 3, lines 9-10). The element 14B is explicitly disclosed in the Neading et al. reference to be the "centrally-located portion 14B of the fluid transport layer 14" (column 2, lines 60-61), which is either "disposed between the inner layer 18 and the absorbent layer 20…disposed between the absorbent layer 20 and the outer layer 22…[or]...incorporated with the inner layer 18 or the absorbent layer 20" (column 3, lines 24-30).

Then, in the Advisory Action, in response to arguments presented in the Reply to the Final Office Action, it was alleged that the "topsheet" of the Neading et al. reference "fulfills the limitation of being semipermeable" (Advisory Action, page 2, lines 18-19). This reference to a "topsheet" in the Advisory Action fails to identify any specific structural element, because the Neading et al.

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reference does not include the term "topsheet". It is presumed that it was intended to refer to a structural analogue to the topsheet of the present invention. The only layer in the diaper 10 of the Neading et al. reference that overlies the other layers and contacts the skin of the wearer, like the topsheet of the present invention, is the inner layer 18.

Thus, the rejections are based on either the centrally-located portion 14B of the fluid transport layer 14 or the inner layer 18 being a semipermeable membrane. However, neither of these layers is disclosed in the Neading et al. reference to be a semipermeable membrane. In fact, the Neading et al. reference fails to mention a semipermeable membrane or anything that falls within the definition of the term.

The meaning of the term "semipermeable membrane" is well-known in the art. Representative examples of its definition and usage include the following.

semipermeable: Allowing passage of certain, especially small, molecules or ions but acting as a barrier to others. Used of biological and synthetic membranes.

The American Heritage[®] Dictionary of the English Language: Fourth Edition. 2000

membrane: Chemistry A thin sheet of natural or synthetic material that is permeable to substances in solution.

The American Heritage® Dictionary of the English Language: Fourth Edition. 2000

semipermeable membrane - A membrane that permits the passage of a solvent, such as water, but prevents the passage of the dissolved substance, or solute.

Glossary of Terminology, Nephrogenic Diabetes Insipidus Foundation at: http://www.ndif.org/Terms/membrane.html

A semipermeable membrane is one through which the molecules of a solvent can pass but the molecules of most solutes cannot.

Terminology Reference System, U.S. Environmental Protection Agency at: http://oaspub.cpa.gov/trs/trs_proc_qry.navigate_term?p_term_id=30127&p_term_cd=TERMDIS

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Osmosis: transfer of a liquid solvent through a semipermeable membrane that does not allow dissolved solids (solutes) to pass.

The Columbia Encyclopedia, Sixth Edition, 2001, at: http://www.bartleby.com/65/os/osmosis.html

Osmosis: the spontaneous passage or diffusion of water or other solvents through a semipermeable membrane (one that blocks the passage of dissolved substances—i.e., solutes).

Encyclopædia Britannica Online at: http://www.britannica.com/eb/article?tocId=9057559&query=semipermeable&ct=eb

In addition, the special distinction of a semipermeable membrane is well-known in the art and it is likewise well-known that manufactured semipermeable membranes are commonly used in water filtration, dialysis, reverse osmosis, and other processes.

Furthermore, exemplary materials are listed in the present Application on page 8 at lines 26-28, where it is recited that "[s]uitable exemplary semipermeable membranes include cellulose acetate, cellulose diacetate, cellulose triacetate, agar acetate, beta glucan acetate, polymeric epoxides, semipermeable polyurethanes, and semipermeable polyglycolic acid."

In contrast, as previously mentioned, the Neading et al. reference fails to mention a semipermeable membrane or anything that falls within the definition of the term. In particular, the fluid transport layer 14 whose centrally-located portion 14B was alleged in the Final Office Action to be a semipermeable membrane is explicitly disclosed in the Neading et al. reference to be "made of any suitable hydrophilic material capable of creating...wicking or capillary action...[and]...may be composed of cellulose paper, hydrophilic polyester, nitrocellulose, rayon fiber, nylon fiber, silica gel, filter paper or the like" (column 3, lines 40-44). Clearly, this description of the fluid transport layer 14 does not include a semipermeable membrane.

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Similarly, the inner layer 18, which was apparently identified by the reference to a "topsheet" in the Advisory Action, is explicitly disclosed to be "comprised of a substantially fluid-permeable material of any suitable type" (column 3, lines 11-12) and it is further explicitly disclosed that "the materials of the inner, absorbent and outer layers 18, 20, 22 can be the same as those comparable layers found in existing commercially-available diapers" (column 3, lines 16-19). Clearly, this description of the inner layer 18 does not include a semipermeable membrane. Specifically, as is well-known in the art, semipermeable membranes are not commonly used as topsheets "in existing commercially-available diapers".

Summary with respect to rejections of Claims 1, 2, 4 through 12, and 14 through 20

The cited reference fails to teach each and every element of the independent Claims 1, 10, and 17 and thereby likewise fails to teach each and every element of the dependent claims. Additionally, the cited reference fails to teach the additional element in Claims 8 and 14.

Rejections of Claims 3 and 13 under 35 USC § 103(a)

These claims stand rejected under 35 USC § 103(a) as being unpatentable over U.S. Patent No. 6,515,194 to Neading et al. in view of U.S. Patent No. 5, 947,943 to Lee.

It is noted that Claims 3 and 13 respectively depend from independent Claims 1 and 10 and thereby include every limitation of Claims 1 and 10.

According to MPEP § 2143:

To establish a *prima facie* case of obviousness, three basic criteria must be met. First, there must be some suggestion or motivation, either in the references themselves or in the knowledge generally available to one of ordinary skill in the art, to modify the reference or to combine reference teachings. Second, there must be a reasonable expectation of success. Finally, the prior art reference (or references when combined) must teach or suggest all the claim limitations.

By this standard, a *prima facie* case of obviousness has not been established, for at least the following reasons.

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All the claim limitations are not taught or suggested

Claims 3 and 13 respectively depend from independent Claims 1 and 10 and thereby contain the limitations that the claimed dehydration indicator is "adapted to measure a urine ionic strength correlated to a specific gravity of the wearer's urine and provide a visible signal when the urine ionic strength reaches a value corresponding to a predetermined threshold of the specific gravity."

On the other hand, as discussed above with respect to the rejections under 35 USC § 102(e), the cited Neading et al. reference fails to disclose ionic strength or a measurement of urine ionic strength, fails to disclose a provision of a signal in response to urine ionic strength, and fails to disclose a predetermined threshold of specific gravity. The cited Lee reference likewise fails to disclose any of these elements and therefore fails to remedy the shortcomings of the Neading et al. reference.

Therefore, the cited references, either when taken alone or in combination, fail to teach or suggest all of the limitations of Claims 3 and 13.

There is no suggestion or motivation to modify or to combine reference teachings

Each of Claims 3 and 13 contains the limitation that the dehydration indicator is covered by a translucent cover. The cited references contain no suggestion or motivation to modify the article of the Neading et al. reference to make a layer translucent as proposed in the rejections and, in fact, teach away from such a modification.

It was stated in the Final Office Action that "Neading...remains silent with respect to the outer cover [layer] 22...The outer cover 16 of the article [of Lee] is translucent so the indicator may be easily viewed without removing the article. It would therefore be obvious to...make the outer cover of Neading translucent, as taught by Lee, so the indicator may be easily viewed without removing the article" (Final Action, page 3, last two lines through page 4, line 7). It was also stated in the Final Office Action that this modification "would allow the entire article of Neading to be covered by the backsheet while the indicator remains visible. Thus, Lee teaches an improvement to Neading" (Final Action, page 5, lines 16-18). Then, in the Advisory Action, it was alleged that "figures 6 and 7 of Neading show the indicator within the boundaries of, and

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therefore covered by, the article 12, thus creating a need for a translucent cover through which the indicator may be seen" (Advisory Action, page 2, lines 21-23).

However, this characterization of the disclosures of the cited references is inaccurate because no modification is necessary for the indicator of Neading et al. to be seen. Instead, the wetness indicator 16 of Neading et al. is explicitly disclosed to be exposed, i.e., not covered by any other layer, and therefore visible at the peripheral edge 14A (column 2, lines 4 and 56; column 3, line 62; column 4, lines 45, 49, and 67; column 5, line 23; column 6, lines 6, 17, 23, and 29; Figures 1, 3, 5, 6, and 7). In every embodiment disclosed in the Neading et al. reference, the visible response at "the peripheral edge 14A provides an immediate indicator visible to the person caring for the small child that the child has excreted waste and soiled the diaper and that the diaper 10 should now be replaced with a fresh one" (column 4, lines 27-31; underlining added).

Specifically, in a "first embodiment, the peripheral edge 14A which contains the wetness indicator 16...is exposed and visible along the ends and sides of the peripheral edge 12A of the diaper substrate 12 such that the peripheral edge 14A both lines and protrudes from the perimeter or peripheral edge 12A...Thus, the visible response of the wetness indicator 16 can be visible along substantially all portions of the peripheral edge 12A" (column 3, line 58 through column 4, line 1; underlining added).

Similarly, in a second embodiment shown in Figures 4 and 5, "the peripheral edge 14A of the transport layer 14 containing the wetness indicator 16 is exposed along at least one or both of the opposite front and rear portions 12C, 12D of the diaper substrate such that the visible response of the wetness indicator 16 can be visible along the at least one or both of the opposite front and rear portions 12C, 12D of the peripheral edge 12A of the diaper substrate 12" (column 4, lines 43-49; underlining added).

Likewise, in a third embodiment shown in Figure 6, "the peripheral edge 14A of the transport layer 14 containing the wetness indicator 16 is exposed along at least one or both of the opposite side portions 12E, 12F of the diaper substrate 12. Thus, the visible response of the wetness indicator 16 can be visible along the at least one or both of the opposite side portions 12E, 12F of the peripheral edge 12A of the diaper substrate 12" (column 4, lines 56-59; underlining

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added). It is particularly noted that this embodiment was mischaracterized in the Advisory Action, where it was misstated that "figures 6 and 7 of Neading show the indicator within the boundaries of, and therefore covered by, the article 12, thus creating a need for a translucent cover through which the indicator may be seen", as quoted above. The element identified by the reference numeral 12 is not the "article", but is the "diaper substrate", which comprises the inner layer 18, the absorbent layer 20, and the outer layer 22 (column 3, lines 1-2). The fluid transport layer 14 is either "disposed between the inner layer 18 and the absorbent layer 20...disposed between the absorbent layer 20 and the outer layer 22...[or]...incorporated with the inner layer 18 or the absorbent layer 20" (column 3, lines 24-30). In any of these configurations, it will appear in a plan view such as Figure 6 to be "within the boundaries" of the diaper substrate 12. However, as quoted above, the fluid transport layer 14 is "exposed along at least one or both of the opposite side portions 12E, 12F of the diaper substrate 12", such that "the visible response of the wetness indicator 16 can be visible along the at least one or both of the opposite side portions 12E, 12F of the peripheral edge 12A of the diaper substrate 12". Thus, as in the first and second embodiments, the disposition of the wetness indicator 16 in this third embodiment does not create a need for a translucent cover to enable the wetness indicator to be seen.

Finally, in a fourth embodiment shown in Figure 7, "the wetness indicator 16 is...exposed and extends...along a portion of the peripheral edge 12A" (column 4, line 66 through column 5, line 1; underlining added), and is therefore likewise visible along that edge. This embodiment was similarly mischaracterized in the Advisory Action, as quoted above, and the comments above with respect to the third embodiment are applicable to this embodiment, as well, with the qualification that the peripheral edge 12A where the wetness indicator 16 is exposed and visible in this embodiment is located at an end edge of the diaper, rather than at a side edge. Thus, the disposition of the wetness indicator 16 in this fourth embodiment likewise does not create a need for a translucent cover to enable the wetness indicator to be seen.

Thus, in every disclosed embodiment, without any modification, the wetness indicator of the Neading et al. reference may be easily viewed without removing the article and there is no need for a translucent cover to enable the indicator to be seen. Therefore, the stated motivation for combining the teachings of the references does not, in fact, exist.

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Furthermore, the Neading et al. reference explicitly teaches away from reapplying the structure taught by the cited Lee reference, to wit:

"prior art diaper wetness indicators are...disclosed in...U.S. Pat. No. 5,947,943 to Lee...The Lee patent, however, appears to be unduly complex and costly" (column 1, lines 28-30 and 45-46).

This explicit consideration and rejection of the cited Lee reference in the Neading et al. reference is the direct obverse of a suggestion to modify its own teachings or to combine them with the teachings of the rejected Lee reference.

Summary with respect to rejections of Claims 3 and 13

The cited references, either when taken alone or in combination, fail to teach or suggest all of the limitations of these claims. Additionally, the alleged suggestion or motivation to modify or to combine the teachings of the references as proposed does not exist and is contradicted by the explicit teaching of the Neading et al. reference, itself. Therefore, at least two of the three requirements for the establishment of a prima facie case of obviousness have not been met.

SUMMARY OF THIS BRIEF

The reference cited in the rejections under 35 USC § 102 fails to teach each and every element of any of the rejected claims. Therefore, the requirements for the anticipation rejections have not been met.

The references cited in the rejections under 35 USC § 103 fail to teach or suggest all of the limitations of the rejected claims. Additionally, the alleged suggestion or motivation to modify or to combine the teachings of the references as proposed does not exist and is contradicted by the explicit teaching of one of the references, itself. Therefore, the requirements for the establishment of a prima facie case of obviousness have not been met.

Accordingly, it is respectfully requested that the rejections of the pending claims be reversed and that the subject Application be remanded with instructions that the pending claims be allowed over the cited references.

13 April 2005

Customer No. 27752

Application No. 10/078,816 Appeal Brief dated 13 April 2005 J4 of 17

Respectfully submitted,

By: Michael P. Hayden

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CLAIMS APPENDIX

CLAIMS ON APPEAL

- 1. A wearable article comprising:
 - a topsheet adapted to fit about a portion of a wearer and receive urine discharged by the wearer; and
 - a dehydration indicator disposed on and affixed to a component of the wearable article, the dehydration indicator being adapted to measure a urine ionic strength correlated to a specific gravity of the wearer's urine and provide a visible signal when the urine ionic strength reaches a value corresponding to a predetermined threshold of the specific gravity.
- 2. The wearable article of Claim 1 wherein the dehydration indicator provides a qualitative indication of a urine specific gravity associated with dehydration.
- 3. The wearable article of Claim 1 further comprising a translucent cover covering the dehydration indicator.
- 4. The wearable article of Claim 1 wherein the dehydration indicator is affixed to the topsheet.
- 5. The wearable article of Claim 1 wherein the dehydration indicator comprises an indicium.
- 6. The wearable article of Claim 5 wherein the indicium serves as a color key for the dehydration indicator signal.
- 7. The wearable article of Claim 1 wherein the dehydration indicator is disposed on a carrier element.
- 8. The wearable article of Claim 1 wherein the dehydration indicator is covered by a semipermeable membrane.

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- The wearable article of Claim 1 additionally comprising a fluid transport element in fluid communication with the dehydration indicator and serving to transport urine to the dehydration indicator.
- 10. A disposable absorbent article for receiving and containing bodily exudates including urine from a wearer, the disposable absorbent article comprising:
 - an outer cover adapted to fit about a portion of the wearer;
 - a fluid permeable topsheet onto and through which the urine is received;
 - an absorbent structure disposed adjacent at least a portion of the outer cover; and
 - a dehydration indicator adapted to measure a urine ionic strength correlated to a specific gravity of the wearer's urine and provide a visible signal when the urine ionic strength reaches a value corresponding to a predetermined threshold of the specific gravity.
- 11. The disposable absorbent article of Claim 10 wherein the dehydration indicator is disposed on at least a portion of the topsheet.
- 12. The disposable absorbent article of Claim 11 wherein the dehydration indicator is detachable from the topsheet.
- 13. The disposable absorbent of Claim 10 further comprising a translucent cover covering the dehydration indicator.
- 14. The disposable absorbent article of Claim 10 wherein the dehydration indicator is covered by a semipermeable membrane.
- 15. The disposable absorbent article of Claim 10 wherein the dehydration indicator is disposed on a carrier element.
- 16. The disposable absorbent article of Claim 10 additionally comprising a fluid transport element in fluid communication with the dehydration indicator and serving to transport urine to the dehydration indicator.

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- 17. An insert for use with a wearable article, the insert comprising a dehydration indicator adapted to measure a urine ionic strength correlated to a specific gravity of a wearer's urine and provide a visible signal when the urine ionic strength reaches a value corresponding to a predetermined threshold of the specific gravity.
- 18. The insert of Claim 17 further comprising a topsheet onto and through which the wearer's urine is received, wherein the dehydration indicator is affixed to the topsheet.
- 19. The insert of Claim 17 wherein the dehydration indicator comprises an indicium.
- 20. The insert of Claim 19 wherein the indicium serves as a color key for the dehydration indicator signal.